

## **MODIS TECHNICAL TEAM MEETING**

**March 11, 1999**

Vince Salomonson chaired the MODIS Technical Team Meeting. Present were Bill Barnes, Wayne Esaias, Bruce Guenther, Dorothy Hall, Chris Justice, Steve Kempler, Ed Masuoka, Bob Murphy, Dan Tarpley (NOAA), Eric Vermote, and Deborah Howard.

### **1.0 SCHEDULE OF EVENTS**

PI Processing Meeting (GSFC)	March 17, 1999, 9:30 a.m. Building 28, Room E210
MODLAND/SDST Meeting (GSFC)	March 30–31, 1999 Building 28, Room E210
Oceans Meeting (Miami, FL)	April 12–13, 1999
PI Processing Meeting (GSFC)	April 14, 1999, 9:30 a.m. Building 28, Room E210
Next MODIS Science Team Meeting (GSFC area)	May 4–5, 1999
PI Processing Meeting (GSFC)	May 12, 1999, 9:30 a.m. Building 28, Room E210
SAFARI Validation/Coordination Meeting (Boulder, CO)	May 12–14, 1999
Mini-SWAMP Meeting at EOS-IWG (Vail, CO)	June 15–17, 1999
SAFARI Program Implementation Meeting (Gaborone, Botswana)	July 26–30, 1999

### **2.0 MINUTES OF THE MEETING**

#### **2.1 Instrument Report**

Bill Barnes reported that Bruce Guenther and he attended the Quarterly Management Review (QMR) in Santa Barbara yesterday (March 10). The SDSM screen replacement on the MODIS Flight Model-1 (FM1) is complete; the screen replacement on the Protoflight Model (PFM) in Valley Forge is scheduled to take place next week. Barnes reported confidence in the gains for both FM1 and PFM SDSMs, and a decision not to measure the PFM/SDSM gains at Valley Forge. Barnes noted that the Calibration group is looking at exit strategies if PC drift remains a problem for FM1. Vince Salomonson asked whether PC drift is a problem for PFM. Guenther replied that it is not. Salomonson then asked how large the PC drift is for FM1. Barnes replied that it is 200 out of 4000 counts across the Earth view. He also said they are examining a possible backup solution and that PC drift only occurs after going from command processor A (CPA) to command processor B (CPB).

Salomonson asked when the PFM will ship. Barnes said FM1 will be shipped to TRW in June and that the Terra spacecraft with the PFM will be shipped to the Western Test Range in April.

## **2.2 SDST Report**

Ed Masuoka reviewed Level 1 PGEs Deliveries (Attachment 1) including delivery dates for PGEs 01, 02, and 03 to the GDAAC. He then reviewed Attachment 2 (untitled) that lists upcoming tests including the MODLAND Test, Year 2000 Testing, Kaufman - Terra Test, MODAPS Acceptance Testing, and MOSS 2 test. The MOSS 2 end-to-end test on the ground system includes EDOS to the DAAC. Masuoka said that the MODLAND test is misnamed, it also includes Ocean and Atmosphere data. Esaias asked which Oceans products would be included. Masuoka replied that all products except the productivity suite would be included in that E-T-E test.

Masuoka briefly reviewed the Launch Ready PGE Status (Attachment 3). He said that he is expecting to receive an updated Ocean Color no later than April 20 from Miami. SDST plans to test the version that is currently running in MODAPS. Masuoka commented that version 2.0, the old format, would be tested in the E-T-E. Also, the integration test for version 1 would take place during an April/May timeframe.

Masuoka mentioned that SDST is hiring additional computer operators.

## **2.3 GDAAC Report**

Steve Kempler reviewed GDAAC Notes for the MODIS Technical Team Meeting (3/11/99) (Attachment 4). He said that the GDAAC is planning to work on L1B browse products and overall MODIS browse definitions. Another technical team member commented that it does not make sense to create a browse product for Level 1B. Bob Murphy said that until MODIS has a flow of data back into the DAAC, it may make sense to have a L1B browse product. Masuoka noted that MODIS browse products are required and that browse products are one of the topics planned for the next PI Processing (PIP) meeting on March 17.

Kempler commented that the GDAAC is developing a DAAC unique solution for receiving Level 2 and above data products from MODAPS, in lieu of this capability being not implemented in ECS at launch. Salomonson asked whether earth view images would be available by August 20. Masuoka replied that Fleig and Teague will discuss early images at the upcoming PIP meeting.

## **2.4 MODLAND/SDST Meeting**

Chris Justice reported that the topics for the upcoming MODLAND/SDST meeting on March 30–31 will include early products and early data production. He commented that when real MODAPS operational performance numbers are available, estimates on timing, production rates and data delivery schedules can be finalized. Until that time, these estimates are a matter of conjecture.

Justice stated that as part of the PI processing facility, the Land Discipline Group and other MODIS discipline groups need space for MODIS visitors to view images and an operations/office space MODLAND production QA.

## **2.5 PIP Meeting**

Eric Vermote reported that the upcoming PIP Meeting agenda will focus on the Terra E-T-E and other E-T-E tests, MODAPS test plan, getting ancillary data from the DAAC into MODAPS, and browse products. Mike Teague and Al Fleig will talk about early images and practice runs with synthetic data before launch. Wayne Esaias suggested beginning with east coast images because they would include both Land and Ocean data.

## **2.6 Snow and Ice Report**

Dorothy Hall said that Dan Tarpley told her that NOAA-15 data with 1.6-micrometer bandwidth is available. She reported plans to run that data using the MODIS snow algorithm.

## **2.7 Oceans Report**

Wayne Esaia said the next Oceans Discipline Meeting will be held on April 12–13 in Miami. He reported that an Oceans Validation trip has been scheduled for 20 days beginning in early October on the R.V. Melville. Esaia commented that initialization cruise costs have gone up.

Esaia reported that Kevin Grady told him that the early March E-T-E tests have they gone fine. Bruce Guenther agreed that most of the E-T-E tests went fine, however, some ASTER commands appeared on the MODIS page and a related configuration management (CM) problem was identified. Guenther said that this could indicate inadvertent MODIS commands to ASTER and that MCST suggests slipping the E-T-E test by 2 weeks. Guenther also mentioned that MODIS now has three different estimates for MODIS primary productivity.

## **2.8 Agreements:**

Dan Tarpley reported that Murphy drafted a NASA and NOAA MODIS MOU last week. Tarpley suggested calling it a technical implementation agreement, or TIA, instead of an MOU. A TIA is the standard agreement that NOAA makes with other agencies and PIs when processing data from non-NOAA satellite instruments. He said it had not yet been completely reviewed at NOAA. Murphy commented that the intent of the agreement is quick release of MODIS data.

Murphy reported that the PI Processing agreement with ESDIS needs a signature. He announced that Bill Ridgway is replacing Liam Gumley as the SDDT Lead for the Atmosphere group.

## **2.9 ATBDs**

Murphy stated that it is essential that ATBDs are updated by April 1, 1999.

## **2.10 Budget**

Murphy reported that MODIS is behind schedule on costing funds. The 533 Reports must be in by March 15, 1999.

# **3.0 ACTION ITEMS**

## **3.1 Action Items Carried Forward**

1. Barnes: Work with Wayne Esaia to complete the written and viewgraph versions of the Oceans Validation Plan.

2. Murphy: Create a mechanism for coordinating MODIS operations and other schedules that includes an interactive listing. It should be more than a passive posting of schedules on the World Wide Web. Such an interactive schedule could be used by MODIS science discipline teams to coordinate field campaigns or by the operations group to coordinate MODIS activities with the other Terra instruments' activities.

Status: This item remains open.

3. Murphy: Clarify the data release agreements between NASA and NOAA on MODIS data, including MODIS requirements and which of these requirements NOAA will accommodate. Discuss these items with Legg and Tarpley of NOAA.

Status: This item remains open. Draft MOU is being worked by Murphy, Tarpley, Legg, and Masuoka.

4. Conboy and Howard: Plan for the next MODIS Science Team meeting in May.

Status: This item remains open.

5. Heney and Howard: Develop a weekly MODIS news page linked to the MODIS home Web site. It should include hot items and reflect weekly progress.

Status: This item remains open.

6. Murphy: Follow up on the status of the PI Processing working agreement with ESDIS.

Status: This item remains open. The conveyance memo from SDDT's and Discipline leaders will be signed this week (the week of March 8–12).

7. Murphy: Investigate the status of direct broadcast and present an update to the Technical Team.

Status: This item remains open.

8. Murphy: Coordinate a MODIS approach for radiance-to-brightness temperature conversions.

Status: This action remains open.

9. Masuoka: Submit an EOS-PM Data Product Update to ESDIS.

Status: This action item remains open.

10. Masuoka: Examine status of DAO ancillary products for MODIS.

Status: This item remains open.

### **3.2 Closed Action Items**

1. Evans and Eicorn: Look into what can be done at Valley Forge without taking the instrument off the spacecraft.

Status: This item is closed. No feasible solution was found.

2. Conboy: Work with Murphy on a launch invitation list; invite PAO to participate.

Status: This item is closed. Conboy submitted the MODIS Terra Launch Invitation.

3. Guenther: Deliver a schedule for an earlier date on Level 1 code. In addition work on, if possible, a more modularized version of the Level 1B code to minimize any problems from forthcoming software changes.

Status: This item is closed. Guenther provided this schedule to an early January premeeting to the SDDT meeting held on January 13.